

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

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TITLE: Fire-resistant phenolic epoxy resins having dihydro-oxaphosphaphenanthrene oxide groups on their side chains and fire-resistant resin compositions containing the same

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PATENT INFORMATION:

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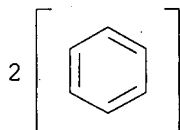
AB The epoxy resin having an active phosphorus compound on its side chain is prepared by addition reacting 9,10-dihydro-9-oxa-10-phosphaphenanthren-10-oxide with a carbonyl-containing compound (e.g., formaldehyde), condensation reacting with phenols (e.g. phenol) and then reacting with a epoxy group of a epoxy resin having ≥ 2 terminal epoxy groups (e.g., BE 188EL). A fire-resistant resin composition, useful for prepregs, composites, laminates, printing circuit boards, electronic packaging materials, etc., comprises (1) the above phosphorus-containing epoxy resin, (2) a halogen-free curing agent (e.g., dicyanodiamide), (3) a curing accelerator.

IT 511535-04-9DP, reaction product with epoxy resins
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PREP (Preparation); USES (Uses)

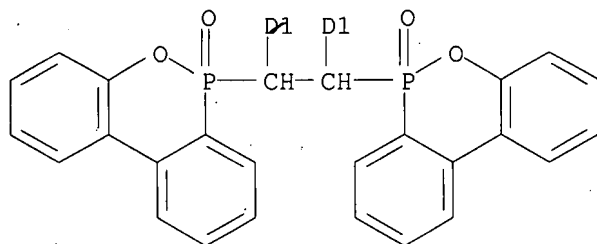
(preparation of fire-resistant phenolic epoxy resins having dihydro-oxaphosphaphenanthrene oxide groups on their side chains).

RN 511535-04-9 CAPLUS)

CN Phenol, [1,2-bis(6-oxido-6H-dibenz[c,e][1,2]oxaphosphorin-6-yl)-1,2-ethanediyl]bis- (9CI) (CA INDEX NAME)



2 (D1-OH)



IT 511534-41-1P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of fire-resistant phenolic epoxy resins having
dihydro-oxaphosphaphenanthrene oxide groups on their side chains)
RN 511534-41-1 CAPLUS
CN 1,2-Ethanediol, 1,2-bis(6-oxido-6H-dibenz[c,e][1,2]oxaphosphorin-6-yl)-
(9CI) (CA INDEX NAME)

